10/590438
IAP9 Rec'd PCT/PTO 23 AUG 2006

Amendment by virtue of the PCT Art.34.

Clean Version

[DOCUMENT NAME] SCOPE OF CLAIM FOR PATENT

1 (Amended)A mobile device having wireless antennas in a wireless communication network having a plurality of base stations, characterized in including:

two or more antennas installed separately at an extent that the base station of which radio wave intensity becomes maximum differs antenna by antenna in a case where the mobile device has stood still in the vicinity of a boundary of wireless areas;

a communication means for simultaneously utilizing said two or more antennas, thereby to simultaneously make communication with a plurality of the base stations;

means for detecting a transmission/reception state of each antenna; and

means for performing a hand-over process based upon difference of said transmission/reception state of each of said antennas.

2 (Cancel)

3 The mobile device according to claim 1, characterized in that said mobile device is a vehicle.

4 The mobile device according to claim 1, characterized in that said mobile device is a train.

5 The mobile device according to claim 1, characterized in that said mobile device is a ship.

6 The mobile device according to claim 1, characterized in raising a communication reliability by, in a case where a set of base stations with which communication is possible via the antenna differ antenna by antenna, making communication with respective separate base stations.

7 (Amended)A mobile device having wireless antennas in a wireless communication network having a plurality of base stations, characterized in including:

two or more antennas installed separately at an extent that the base station of which a communication quality becomes most excellent differs antenna by antenna in a case where the mobile device has stood still in the vicinity of a boundary of wireless areas;

a communication means for simultaneously utilizing said two or more antennas, thereby to simultaneously make communication with a plurality of the base stations;

means for detecting a transmission/reception state of

each antenna; and

means for performing a hand-over process based upon difference of said transmission/reception state of each of said antennas.

8 (Cancel)

9 The mobile device according to claim 7, characterized in that said mobile device is a vehicle.

10 The mobile device according to claim 7, characterized in that said mobile device is a train.

11 The mobile device according to claim 7, characterized in that said mobile device is a ship.

12 The mobile device according to claim 7, characterized in raising a communication reliability by, in a case where a set of base stations with which communication is possible via the antenna differ antenna by antenna, making communication with respective separate base stations.

13 (Amended)A mobile device having wireless antennas in a wireless communication network having a plurality of base stations, characterized in including:

two or more antennas installed separated at an extent that the base station of which a communication quality becomes most excellent differs antenna by antenna in a case where the mobile device has stood still in the vicinity of a boundary of wireless areas;

two or more transmission/reception means mounted responding to each of said antennas;

a communication means for simultaneously utilizing said two or more antennas and said two or more transmission/reception means, thereby to simultaneously make communication with a plurality of the base stations;

means for detecting a transmission/reception state of each antenna; and

means for performing a hand-over process based upon said transmission/reception state of each of said antennas.

14 (Cancel)

15 The mobile device according to claim 13, characterized in that said mobile device is a vehicle.

16 The mobile device according to claim 13, characterized in that said mobile device is a train.

17 The mobile device according to claim 13, characterized

in that said mobile device is a ship.

18 The mobile device according to claim 13, characterized in raising a communication reliability by, in a case where a set of base stations with which communication is possible via the antenna differ antenna by antenna, making communication with respective separate base stations.

19 (Cancel)

20 (Amended)A method of arranging wireless interfaces, characterized in including the steps of: arranging two or more antennas separately at an extent that the base station of which a communication quality becomes most excellent antenna by antenna in a case where a mobile device has stood still in the vicinity of a boundary of wireless areas; mounting two or more transmission/reception means correspondingly to each antenna; and arranging wireless interfaces so that said two or more antennas and said two or more transmission/reception means are simultaneously utilized, thereby to simultaneously make communication with a plurality of the base stations and performing a hand-over process based upon difference of said transmission/reception state of each of said antennas.

21 (Amended)A hand-over method of mobile telecommunications, characterized in including the steps of: detecting a difference of transmission/reception state of two or more antennas mounted separately on a mobile body at an extent that a base station of which radio wave intensity becomes maximum differs antenna by antenna in a case where the mobile body has stood still in the vicinity of a boundary of wireless areas; and performing a hand-over process to the base station of the antenna where the radio wave intensity becomes strong with movement.

22 (Amended)A hand-over method of mobile telecommunications, characterized in including the steps of: detecting a difference of transmission/reception state of two or more antennas mounted separately on a mobile body at an extent that a base station of which a communication quality becomes most excellent differs antenna by antenna in a case where the mobile body has stood still in the vicinity of a boundary of wireless areas; and performing a hand-over process to the base station of the antenna where the radio wave intensity becomes strong with movement.